

**Amendments to the Claims:**

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A low-molecular-weight substance detection instrument employing immunochromatography, ~~comprising~~comprising:

a reaction product contact section where a reaction product is brought into contact with the low-molecular-weight substance detection instrument, ~~said~~the reaction product being a product produced by reacting a test sample with a label product containing an antibody capable of binding to a target substance in a test sample, ~~said~~the target substance being selected from ~~the~~a group consisting of dioxins and PCBs;

an unbound label product capture section which captures label product which is not bound to the target substance and which does not capture label product which is bound to the target substance; and

a detection section which detects the target substance bound to the label product.

2-3. (Canceled)

4. (Previously Presented) The low-molecular-weight substance detection instrument according to claim 1, further comprising:

an element which captures the label product which is not bound to the target substance, bound to the unbound label product capture section; and

a detection element which, when coming into contact with the target substance bound to the label product, causes a visually observable change, in the detection section.

5. (Previously Presented) The low-molecular-weight substance detection instrument according to claim 1, wherein the label product contains a metallic colloidal particle or a latex particle as a labeling substance.

6. (Previously Presented) The low-molecular-weight substance detection instrument according to claim 1, wherein a detection element contained in the detection section is bound to the detection section.

7. (Previously Presented) The low-molecular-weight substance detection instrument according to claim 1, wherein an element which captures the label product which is not bound to the target substance, in the unbound label product capture section, is the target substance or a substance similar to the target substance.

8. (Previously Presented) The low-molecular-weight substance detection instrument according to claim 1, wherein the unbound label product capture section and the detection section each comprises a carrier fixated onto a porous membrane for chromatography.

9-16. (Canceled)

17. (Currently Amended) A method of using a low-molecular-weight substance detection instrument according to claim 1, ~~which comprises~~comprising:

reacting a test sample with a label product containing an antibody capable of binding to a target substance in a test sample, ~~said~~the target substance being selected from ~~the~~a group consisting of dioxins and PCBs;

applying the resultant reaction product to the reaction product contact section;  
and

detecting the target substance bound to the label product in the detection section, to thereby detect the target substance in the test sample.

18. (Previously Presented) The method according to claim 17, wherein the target substance bound to the label product is detected by using a detection element which, when coming into contact with the target substance bound to the label product, causes a visually observable change.

19. (Previously Presented) The method according to claim 17, further comprising detecting the label product which is not bound to the target substance.

20. (Currently Amended) A low-molecular-weight substance detection set, which comprises, as constituent elements,

(1) a low-molecular-weight substance detection instrument according to claim 1, and

(2) a label product containing an antibody capable of binding to a target substance in a test sample, ~~said~~the target substance being selected from the group consisting of dioxins and PCBs.

21. (Previously Presented) The low-molecular-weight substance detection set according to claim 20, wherein the label product is maintained in a dry condition.

22. (New) A method of detecting a target substance in a test sample, the target substance being selected from a group consisting of dioxins and PCBs, comprising the steps of:

preparing a detection instrument employing immunochromatography, and preparing a label product comprising an antibody and a labeling substance, the antibody being capable of binding to the target substance in the test sample, separately,

the detection instrument comprising a reaction product contact section where a reaction product is brought into contact with the low-molecular weight substance detection instrument, the reaction product being a product produced by reacting the test sample with the label product; an unbound label product capture section that captures the label product, that is not bound to the target substance, and that does not capture the label product, that is bound to the target substance, and a detection section that detects the target substance bound to the label product;

reacting the test sample with the label product to obtain the reaction product;

applying the reaction product to the reaction product contact section of the detection instrument; and

detecting the target substance bound to the label product in the detection section, to thereby detect the target substance in the test sample.

23. (New) The method according to claim 22, wherein the target substance bound to the label product is detected by using a detection element that, when coming into contact with the target substance bound to the label product, causes a visually observable change.

24. (New) The method according to claim 22, further comprising detecting the label product, which is not bound to the target substance.

25. (New) A low-molecular-weight substance detection set,  
which comprises, as constituent elements,

(1) a low-molecular-weight substance detection instrument employing immunochromatography; and

(2) a label product comprising an antibody and a labeling substance, the antibody being capable of binding to a target substance in a test sample, the target substance being selected from a group consisting of dioxins and PCBs,

the low-molecular-weight substance detection instrument comprising a reaction product contact section where a reaction product is brought into contact with the low-molecular-weight substance detection instrument, the reaction product being a product produced by reacting the test sample with the label product; an unbound label product capture section that captures the label product, that is not bound to the target substance, and that does not capture the label product, that is bound to the target substance, and a detection section that detects the target substance bound to the label product.

26. (New) The low-molecular-weight substance detection set according to claim 25, wherein the detection instrument further comprises:

an element that captures the label product which is not bound to the target substance, bound to the unbound label product capture section; and

a low-molecular-weight substance detection element that, when coming into contact with the target substance bound to the label product, causes a visually observable change, in the detection section.

27. (New) The low-molecular-weight substance detection set according to claim 25, wherein the label product contains a metallic colloidal particle or a latex particle as the labeling substance.

28. (New) The low-molecular-weight substance detection set according to claim 26, wherein the detection element contained in the detection section is bound to the detection section.

29. (New) The low-molecular-weight substance detection set according to claim 26, wherein the element that captures the label product, which is not bound to the target substance, in the unbound label product capture section, is the target substance or a substance similar to the target substance.

30. (New) The low-molecular-weight substance detection set according to claim 25, wherein the unbound label product capture section and the detection section each comprises a carrier fixated onto a porous membrane for chromatography.

31. (New) The low-molecular-weight substance detection set according to claim 25, wherein the label product is maintained in a dry condition.